

CLAIMS:

1. A diversity receiver having multiple antenna receiving branches, characterized in that each branch has means for estimating at least a receiving channel parameter, and that the channel parameter estimating means in one branch are coupled to the channel parameter estimating means in an other branch for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the other branch.
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2. The diversity receiver according to claim 1, characterized in that the channel parameter estimate in the one branch is used as a starting point for the channel parameter estimate in the other branch.
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3. The diversity receiver according to claim 1 or 2, characterized in that the channel parameter estimate in the one branch provides a coarse channel parameter estimate, which coarse channel parameter estimate is used as a start for the channel parameter estimate in the other branch.
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4. The diversity receiver according to one of the claims 1-3, characterized in that the estimating means in the other branch are coupled to the estimating means in said one branch for using at least a part of the channel parameter estimate in the other branch as an aid for estimating the receiving parameter channel in said one branch.
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5. The diversity receiver according to one of the claims 1-4, characterized in that the diversity receiver has two antenna receiving branches.
- 25 6. The diversity receiver according to one of the claims 1-5, characterized in that the system (1) is arranged for estimating a time delay between the appearance of a certain channel parameter estimate in the various branches.

7. A mobile radio communication device provided with a diversity receiver according to one of the claims 1-5, diversity receiver having multiple antenna receiving branches, characterized in that each branch has means for estimating at least a receiving channel parameter, and that the channel parameter estimating means in one branch are
5 coupled to the channel parameter estimating means in an other branch for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the other branch.
8. A method wherein a signal is received through multiple antenna receiving
10 branches, characterized in that in each branch an estimation is made about a received channel, and that channel estimation results from one branch are being used as an aid for estimating the received channel in an other branch.
9. Signals suited for applying the method according to claim 8 in a mobile radio
15 communication device according to claim 7 or a diversity receiver according to one of the claims 1-6, wherein a signal is received through multiple antenna receiving branches, characterized in that in each branch an estimation is made about a received channel, and that channel estimation results from one branch are being used as an aid for estimating the received channel in an other branch.